RESEARCH INSTITUTE FOR MICROBIAL DISEASES
OSAKA UNIVERSITY, OSAKA, JAPAN

May 25, 1951

Dr. Joshua Lederberg
Department of Genetics
University of Wisconsin
Madison, Wisconsin
U. S. A.

Dear Dr. Lederberg:

I am very interested to read your useful review titled with " Bacterial Variation " published in the Ann. Rev. Microbiol., Vol. 3., 1949.

Since several years ago, I have also been studing on the antigenic variation in Trypanosoma gambiense, a species of the protozoas. With our devised method, I recently succeeded in clearly demonstrating the interesting phenomenon that the permanent variation (inheritable antigenic variation, unchangeable variation by transfers through mice) was induced in vitro within as short time as 15 or 20 minutes after these organisms were exposed to the correspondent antiserum. Therefore, it is no doubt that the antigenic permanent variation were able to induced in Trypanosoma gambiense. Of course, any fission was excluded during this observation, because all the course of variation were easily followed under the microscope.

This variation was very likely to that observed in the Paramecium aurelia by Prof. Sonneborn, however he had failed to ascertain the important fact that the inheritable (plasmagenic) variation was able to occur in Paramecium without regarding to their fission.

If it is not too troublesome, I would like for you to send me your reprints already published in the field of Bacterial Variation. I will also send you our reprints on the antigenic variation in Trypanosoma gambiense and the other protozoas when they are published.

Trusting the favour of soon hering from you and making future exchanges, I am,

Faithfully yours,

Shozo Inoki

Shozo Inoki, M.D.
Assistant Professor
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Recently I have been making exchange with Prof. Sonneborn [illegible] [illegible] [illegible] [illegible] antigenic variation [illegible] [illegible].